

> Denotes revised material in this JPM

JOB PERFORMANCE MEASURE

TASK CODE: CFO-170

TASK: >Perform a Dose Rate Survey

NAME: _____ **>BADGE:** _____

>REFERENCES: Only references for knowledge items are listed here. The trainee is expected to identify the correct references for practical items.

1. WP 12-HP1100, Radiological Surveys
2. WP 12-5, WIPP Radiation Safety Manual

TERMINAL OBJECTIVE:

Given that a radiation survey is required for an area, perform the survey per WP 12-HP1100.

CONSEQUENCES OF INADEQUATE PERFORMANCE

Improper survey results
Excessive personnel exposure

HAZARDS (PERSONNEL/EQUIPMENT STATUS):

Personnel over exposure

PRE-REQUISITE TRAINING/ TASK COMPLETION:

1. CL 1.00 Series
- >2. CL 2.16, Radiation Survey Instrumentation and Techniques
- >3. CFO-116, Operate a Geiger-Mueller Dose Rate Instrument
- >4. CFO-123, Operate a Neutron Dose Rate Instrument
- >5. CFO-128, Operate an Ion Chamber Dose Rate Instrument

TOOLS/EQUIPMENT (MATERIALS REQUIRED):

- | | |
|---------------------------------------|-------------------------|
| 1. Appropriate Survey Instrumentation | 2. Survey Documentation |
|---------------------------------------|-------------------------|

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Instructions to Trainee: You shall acquire the necessary references and equipment, and complete all required documentation. Knowledge requirements shall be completed with 80% or greater accuracy. Critical step performance shall be completed with 100% accuracy.

Instructions to JPM Evaluator: The trainee is to perform the terminal objective, without assistance, on the job site. Provide clarification of requirements if requested by the trainee. You are encouraged to ask relevant questions to verify trainee understanding. If the trainee fails this JPM, clearly document the reason for failure and forward to the trainee's manager. Successful completion of this JPM shall be recorded on the trainee's qualification card.

>On performance items, if there is more than one means available to accomplish the step, circle the method used. Refer to the RCT-01G Qualification Standard for preference of use.

KNOWLEDGE REQUIREMENTS:

Reference	Knowledge Requirement	Pass/Fail
1	Discuss how to determine the type of radiation to be detected.	
1	Describe how each type of radiation is documented on a survey map.	
1	Define a "contact" and a "general area" dose rate reading.	
1	Discuss when and why a 30-centimeter reading is required.	
2	Define the term "hot spot".	
1	State how to perform beta dose rates.	
1,2	Describe when survey readings would be taken at other than waist level.	
1,2	Discuss actions to be taken when encountering an off normal event	

PERFORMANCE REQUIREMENTS:

>Method	Performance Requirement	Pass/Fail
P, S	Select the proper instrument for the required survey. #	
P, S	Perform a beta dose rate survey. #	
P, S	Perform a neutron dose rate survey. #	
P, S	Perform a contact, 30 cm and a general area gamma dose rate survey. #	
P, S	Document the survey and submit to the RC Manager. #	
P, S	Notify affected personnel of an off normal event. #	

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indicates a critical step

FINAL EVALUATION:

PASS

FAIL

COMMENTS:

EVALUATOR SIGNATURE:

----- **DATE:**-----

TRAINEE SIGNATURE:

----- **DATE:**-----

MANAGER SIGNATURE:

----- **DATE:**-----